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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,231	09/17/2003	Yu-Min Wang	FTCP0026USA	2230
27765 7590 01/18/2007 NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			EXAMINER DENG, ANNA CHEN	
			ART UNIT	PAPER NUMBER
			2191	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.		Applicant(s)	
	10/605,231		WANG, YU-MIN	
	Examiner		Art Unit	
	Anna Deng		2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>5/16/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is response to application filed 9/17/2003.
2. Claims 1-9 are pending.
3. Claims 1-9 have been examined.

Specification

4. The abstract of the disclosure is objected to because the number of words is over 150.
Correction is required. See MPEP § 608.01(b).

Claim Objections

5. Claim 2 is objected to because of the following informalities: the claim ends at a semicolon. A period (full stop) should be placed at the end of each claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-9 are rejected under U.S.C. 102 (e) as being anticipated by Augsburg et al. US 6,826,747 (hereinafter Augsburg)

Per Claim 1:

Augsburg discloses:

- A method for real-time instruction information tracing, when a microprocessor runs a program comprising a plurality of specific instructions (Multiple TEs (triggering event)), the method records instruction information of the specific instructions executed by the microprocessor from a tracing start point (col. 1, liens 24-32, col. 3, lines 7-14), the method comprising:
 - setting a trace count value as a initial value; setting a trigger count value according to the tracing start point (initial state, col. 5, lines 13-21);
 - starting to run the program with the microprocessor (FIG. 1, microprocessor 100, col. 5, lines 22-26);
 - when a specific instruction is executed by the microprocessor, increasing the trace count value (col. 9, lines 41-48);
 - if the increased trace count value is equal to or larger than the trigger count value, recording the instruction information of the specific instruction executed by the microprocessor in a buffer (col. 9, lines 49-52, col. 10, lines 8-18);
 - when the buffer is full, stopping running the program with the microprocessor and outputting instruction information recorded in the buffer via an output interface (FIG. 2, step 215, col. 7, lines 60-67, col. 8, lines 47-58) ;
 - resetting the trigger count value according to the trace count value while the buffer is full, resetting the tracing value with the initial value, using the microprocessor to start to run the program (col. 8, lines 47-61); and

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- when the microprocessor finishes running the program, outputting instruction information recorded in the buffer via the output interface(FIGS. 6, and 9, col. 11, lines 32-50).

Per Claim 2:

Augsburg discloses:

- setting a stop count value according to a tracing stop point (entries N, N cycles, col. 10, lines 62-67, and col. 11, lines 1-10); and
- when the trace count value is equal to or larger than the stop count value, stopping running the program with the microprocessor and outputting instruction information recorded in the buffer via the output interface (col. 11, lines 11-50).

Per Claim 3:

Augsburg discloses:

- providing a stop count register for storing the stop count value (FIG. 1, SE Counter 120, col. 8, lines 38-46).

Per Claim 4:

Augsburg discloses:

- providing a comparator for comparing the trace count value with the stop count value (performing a comparison with an event, col. 9, lines 3-12).

Per Claim 5:

Augsburg discloses:

- providing a trace count register for storing the trace count value (FIG. 1, OFFSET Counter 122, col. 10, lines 8-18).

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Per Claim 6:

Augsburg discloses:

- providing a trigger count register for storing the trigger count value (FIG. 1, LR, CTR, IAR, col. 5, lines 13-22).

Per Claim 7:

Augsburg discloses:

- providing a comparator for comparing the trace count value with the trigger count value (FIG. 2, predetermined value, col. 8, lines 21-26).

Per Claim 8:

Augsburg discloses:

- providing a filter for filtering instruction information of the specific instructions executed by the microprocessor when the microprocessor is running the program (col. 1, lines 36-39).

Per Claim 9:

Augsburg discloses:

- providing a storage device electrically connected to the output interface for reading out and recording instruction information recorded in the buffer (FIGS. 6, and 9, col. 11, lines 32-50).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anna Deng whose telephone number is 571-272-5989. The examiner can normally be reached on Monday to Friday 9:30 AM - 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached at 571 -272-3708. The fax phone number for the organization where this application or proceeding is assigned is 703-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anna Deng

A. D.

January 11, 2007

Mary Steelman
Primary Examiner